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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/661,939
Filing Date	September 12, 2003
First Named Inventor	Frank A. Skraly
Group Art Unit	1652
Examiner Name	I. Chowdhury
Attorney Docket Number	MBX 048

Sheet 1 of 7

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
or		4,477,654		Holmes et al.	10-16-1984	
or		4,910,145		Holmes et al.	03-20-1990	
or		5,245,023		Peoples et al.	09-14-1993	
or		5,250,430		Peoples et al.	10-05-1993	
or		5,480,794		Peoples et al.	01-02-1996	
or		5,489,470		Noda	02-06-1996	
or		5,502,116		Noda	03-26-1996	
or		5,512,669		Peoples et al.	04-30-1996	
or		5,534,432		Peoples et al.	07-09-1996	
or		5,563,239		Hubbs et al.	10-08-1996	
or		6,329,183		Skraly et al.	12-11-2001	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
or		PCT	WO 99/14313		Metabolix, Inc.	03-25-1999		
or		PCT	WO 00/43523		Metabolix, Inc.	07-27-2000		

Examine Signature	<i>Ughat Chowdhury</i>	Date Considered	4/15/06
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		First Named Inventor	Frank A. Skraly
		Group Art Unit	1652
		Examiner Name	I. Chowdhury
Sheet 2 of 7	Attorney Docket Number	MBX 048	

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
92		AGOSTINI, et al., "Synthesis and Characterization of Poly-β-Hydroxybutyrate. I. Synthesis of Crystalline DL Poly-β-Hydroxybutyrate from DL- β-Butyrolactone," <i>Polym. Sci. Part A-1</i> 9:2775-87 (1971).	
92		BRAUNEGG, et al., "Polyhydroxyalkanoates, biopolyesters from renewable resources: physiological and engineering aspects," <i>J. Biotech.</i> 65: 127-161 (1998).	
92		BRUHN & MÜLLER, "Preparation and characterization of spray-dried poly(DL-lactide) Micro Spheres," <i>Proceed. Intern. Symp. Control. Rel. Bioact. Mater.</i> 18:668-69 (1991).	
92		BYROM, "Miscellaneous Biomaterials" in Biomaterials (D. Byrom, ed.) pp. 333-59 (MacMillan Publishers, London 1991).	
92		CHOI & LEE, "Factors affecting the economics of polyhydroxyalkanoate production by bacterial fermentation," <i>Appl. Microbiol. Biotechnol.</i> 51: 13-21 (1999).	
92		CLARK & ROD, "Regulatory mutations that allow the growth of <i>Escherichia coli</i> on butanol as carbon source," <i>J. Mol. Evol.</i> 25: 151-158 (1987).	
92		CONTI, et al., "Use of polylactic acid for the preparation of microparticulate drug delivery systems," <i>J. Microencapsulation</i> 9: 153-166 (1992).	
92		DANIEL, et al., "Purification of 1,3-propanediol dehydrogenase from <i>Citrobacter freundii</i> and cloning, sequencing, and overexpression of the corresponding gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 177(8): 2151-2156 (1995).	
92		DOI, "Microbial synthesis, physical properties, and biodegradability of polyhydroxyalkanoates," <i>Macromol. Symp.</i> 98: 585-599 (1995).	
92		DUBOIS, et al., "Macromolecular engineering of polylactones and polylactides. 12. Study of the depolymerization reactions of pol(ε-caprolactone) with functional aluminum alkoxide end groups," <i>Macromolecules</i> 26:4407-4412 (1993).	

Examiner's Signature	<i>I. Chowdhury</i>	Date Considered	4/18/06
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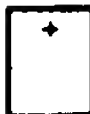
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		First Named Inventor	Frank A. Skraly	
		Group Art Unit	1652	
		Examiner Name	J. Chowdhury	
3	of	7	Attorney Docket Number	MBX 048



OTHER ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
JK		FUKUI, et al., "Biosynthesis of poly(3-hydroxybutyrate-co-3 hydroxyvalerate-co-3hydroxy-heptanoate) terpolymers by recombinant <i>Alcaligenes eutrophus</i> ," <i>Biotechnol. Lett.</i> 19: 1093-1097 (1997).	
JK		GERNGROSS & MARTIN, "Enzyme-catalyzed synthesis of poly[(R)-(-)-3-hydroxybutyrate]: formation of macroscopic granules <i>in vitro</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 92:6279-83 (1995).	
JK		GROSS, et al., "Polymerization of β -monosubstituted- β -propiolactones using trialkylaluminum-water catalytic systems and polymer characterization," <i>Macromolecules</i> 21:2657-68 (1988).	
JK		HERRERO, et al., "Transposon vectors containing non-antibiotic resistance selection markers for cloning and stable chromosomal insertion of foreign genes in gram-negative bacteria," <i>J. Bacteriol.</i> 172(11): 6557-6567 (1990).	
JK		HOCKING & MARCHESSAULT, "Syndiotactic poly[(R,S)- β -hydroxybutyrate] isolated from methyaluminoxane-catalyzed polymerization," <i>Polym. Bull.</i> 30:163-70 (1993).	
JK		HOCKING & MARCHESSAULT, "Biopolyesters" in <i>Chemistry and Technology of Biodegradable Polymers</i> , (G.J.L. Griffin, ed.), pp. 48-96, Chapman and Hall: London, 1994.	
JK		HOLMES, "Biologically Produced (R)-3-Hydroxyalkanoate Polymers and Copolymers," in <i>Developments in Crystalline Polymers</i> (Bassett, ed.) Elsevier: London, pp. 1-65 (1988).	
JK		HORI, et al., "Ring-opening copolymerization of optically active β -butyrolactone with several lactones catalyzed by distannoxane complexes: synthesis of new biodegradable polyesters," <i>Macromolecules</i> 26:4388-90 (1993).	
JK		HORI, et al., "Ring-opening polymerization of optically active β -butyrolactone using distannoxane catalysts: synthesis of high molecular weight poly(3-hydroxybutyrate)," <i>Macromolecules</i> 26:5533-34 (1993).	
JK		JENKINS & NUNN, "Regulation of the <i>ato</i> operon by the <i>atoC</i> gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 169(5): 2096-2102 (1987).	

Examiner's Signature		Date Considered	4/10/03
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		Filing Date	September 12, 2003	
		First Named Inventor	Frank A. Skraly	
		Group Art Unit	1652	
		Examiner Name	I. Chowdhury	
4	of	7	Attorney Docket Number	MBX 048

OTHER ART -- NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
Jr		JENKINS & NUNN, "Genetic and molecular characterization of the genes involved in short-chain fatty acid degradation in <i>Escherichia coli</i> : the <i>ato</i> system," <i>J. Bacteriol.</i> 169: 42-52 (1987).	
Jr		JESUDASON & MARCHESSUALT, "Synthetic poly[(R,S)- β -hydroxyalkanoates] with butyl and hexyl side chains," <i>Macromolecules</i> 27: 2595-2602 (1994).	
Jr		JOHNSON & LIN, " <i>Klebsiella pneumoniae</i> 1,3-propanediol: NAD ⁺ oxidoreductase," <i>J. Bacteriol.</i> 169(5): 2050-2054 (1987).	
Jr		JONES & TURNER, "Interrelationships between the enzymes of ethanolamine metabolism in <i>Escherichia coli</i> ," <i>J. Gen. Microbiol.</i> 130(Pt 2): 299-308 (1984).	
Jr		JONES & TURNER, "A model for the common control of enzymes of ethanolamine catabolism in <i>Escherichia coli</i> ," <i>J. Gen. Microbiol.</i> 130(Pt 4): 849-860 (1984).	
Jr		KEMNITZER, et al., "Preparation of predominantly syndiotactic poly(β -hydroxybutyrate) by the tributyltin methoxide catalyzed ring-opening polymerization of racemic β -butyrolactone," <i>Macromolecules</i> 26:1221-29 (1993).	
Jr		KOOSHA, "Preparation and characterization of biodegradable polymeric drug carriers," Ph.D. Dissertation, 1989, Univ. Nottingham, UK., <i>Diss. Abstr. Int. B</i> 51:1206 (1990).	
Jr		LAFFERTY, et al., "Microbial Production of Poly-b-hydroxybutyric acid" in <i>Biotechnology</i> (H.J. Rehm and G. Reed, eds.), Verlagsgesellschaft, Weinheim, vol. 66, pp. 135-76 (1988).	
Jr		LE BORGNE & SPASSKY, "Stereoelective polymerization of β -butyrolactone," <i>Polymer</i> 30:2312-19 (1989).	
Jr		LUZIER, "Materials derived from biomass/biodegradable materials," <i>Proc. Natl. Acad. Sci. USA</i> 89: 839-842 (1992).	

Examiner's Signature		Date Considered	9/18/00
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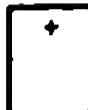
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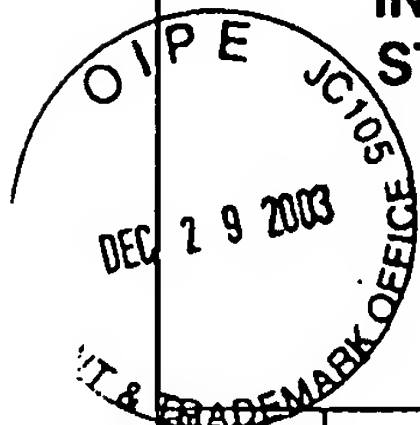


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JK		MADISON & HUISMAN, "Metabolic engineering of poly(3-hydroxyalkanoates): from DNA to plastic," <i>Microbiol. Mol. Biol. Rev.</i> 63(1): 21-53 (1999).	
JK		MATHIOWITZ & LANGER, "Polyanhydride microspheres as drug delivery systems" in <i>Microcapsules Nanopart. Med. Pharm.</i> (Donbrow, ed.) CRC Press: Boca Raton, Florida, pp. 99-123 (1992).	
JK		MAYSINGER, et al., "Microencapsulation and the grafting of genetically transformed cells as therapeutic strategies to rescue degenerating neurons of the CNS," <i>Rev. Neurosci.</i> , 6:15-33 (1995).	
JK		MCMILLIN, et al., "Elastomers for biomedical applications," <i>Rubber Chemistry and Technology</i> 67:417-446 (1994).	
JK		MULLER & SEEBACH., "Poly(hydroxyalkanoates): a fifth class of physiologically important organic biopolymers," <i>Angew. Chem. Int. Ed. Engl.</i> 32: 477-502 (1993).	
JK		OGAWA, et al., "A new technique to efficiently entrap leuprolide acetate into microcapsules of poly lactic acid or copoly(lactic/glycolic) acid," <i>Chem. Pharm. Bull.</i> 36:1095-103 (1988).	
JK		POZNANSKAYA & KORSOVA, "Some physicochemical parameters of reactions catalyzed by glycerol dehydratase," <i>Biokhimiya</i> 48: 539-543 (1983).	
JK		SAITO, et al., "Microbial synthesis and properties of poly(3-hydroxybutyrate-co-4-hydroxybutyrate)," <i>Polym. Int.</i> 39: 169 (1996).	
JK		SKRALY, et al., "Construction and characterization of a 1,3-propanediol operon," <i>Appl. Environ. Microbiol.</i> 64: 98-105 (1998).	
JK		SLATER, et al., "Production of poly-(3-hydroxybutyrate-co-3-hydroxyvalerate) in a recombinant <i>Escherichia coli</i> strain," <i>Appl. Environ. Microbiol.</i> 58: 1089-1094 (1992).	

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6	of	7	Attorney Docket Number	MBX 048

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92		STEINBUCHER & VALENTIN, "Diversity of bacterial polyhydroxyalkanoic acids," <i>FEMS Microbiol. Lett.</i> 128:219-28 (1995).	
92		STEINBUCHER & WIESE, "A <i>Pseudomonas</i> strain accumulating polyesters of 3-hydroxybutyric acid and medium-chain-length 3-hydroxyalkanoic acids," <i>Appl. Microbiol. Biotechnol.</i> 37:691-97 (1992).	
92		STEINBUCHER, "Polyhydroxyalkanoic Acids" in <i>Biomaterials</i> (Byrom, ed.) MacMillan Publishers: London, pp. 123-213 (1991).	
92		TANAHASHI & DOI, "Thermal properties and stereoregularity of poly(3-hydroxybutyrate) prepared from optically active β -butyrolactone with a zinc-based catalyst," <i>Macromolecules</i> 24:5732-33 (1991).	
92		TOBIMATSU, et al., "Cloning, sequencing, and high level expression of the genes encoding adenosylcobalamin-dependent glycerol dehydrase of <i>Klebsiella pneumoniae</i> ," <i>J. Biol. Chem.</i> 271: 22352-22357 (1996).	
92		TOTH, et al., "The <i>ald</i> gene, encoding a coenzyme A-acylating aldehyde dehydrogenase, distinguishes <i>Clostridium beijerinckii</i> and two other solvent-producing clostridia from <i>Clostridium acetobutylicum</i> ," <i>Appl. Environ. Microbiol.</i> 65(11): 4973-80 (1999).	
92		VALENTIN, et al., "Identification of 4-hydroxyhexanoic acid as a new constituent of biosynthetic polyhydroxyalkanoic acids from bacteria," <i>Appl. Microbiol. Biotechnol.</i> 40:710-16 (1994).	
92		VALENTIN, et al., "Identification of 4-hydroxyvaleric acid as a constituent of biosynthetic polyhydroxyalkanoic acids from bacteria," <i>Appl. Microbiol. Biotechnol.</i> 36: 507-514 (1992).	
92		WILLIAMS & PEOPLES, "Biodegradable plastics from plants," <i>CHEMTECH</i> 26:38-44 (1996).	
92		WILLIAMS & PEOPLES, "Making plastics green," <i>Chem. Br.</i> 33:29-32 (1997).	

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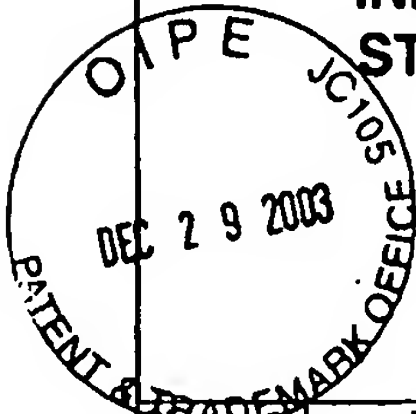


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JK		ZHANG, et al., "Production of polyhydroxyalkanoates in sucrose-utilizing recombinant <i>Escherichia coli</i> and <i>Klebsiella</i> strains," <i>Appl. Environ. Microbiol.</i> 60: 1198-1205 (1994).	

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